

IN THE CLAIMS:

1.-12. (cancelled)

13. (new) A method of determining the coupling torque in a friction coupling with an electro-mechanical actuator comprising a supporting element axially supported in a housing and an axially displaceable setting element supported on said supporting element, the method comprising:

axially supporting the supporting element in the housing via an undisplaceably enclosed hydraulic medium; measuring the pressure in the hydraulic medium; and calculating the coupling torque in a central controller as a function of the measured pressure and a lookup table of values for the actuator and the friction coupling.

14. (new) A method according to claim 13, wherein an axial force of the actuator and a supporting force of the supporting element are calculated as a function of the pressure in the hydraulic medium, using a stored value for the effective face of the supporting element.

15. (new) A method according to claim 14, wherein a coupling moment is calculated, using stored values for a friction value, and the friction face of the friction coupling is calculated as a function of the axial force of the actuator and the supporting force of the supporting element.

16. (new) A method according to claim 13 comprising controlling the pressure in the hydraulic medium in a closed control circuit by setting the actuator to a respective nominal value.

17. (new) A method according to claim 14 comprising controlling the pressure in the hydraulic medium in a closed control circuit by setting the actuator to a respective nominal value.

18. (new) A method according to claim 15 comprising controlling the pressure in the hydraulic medium in a closed control circuit by setting the actuator to a respective nominal value.

19. (new) An assembly comprising:

a friction coupling with an electro-mechanical actuator, the actuator comprising a supporting disc axially fixed in a housing and an axially displaceable setting disc being axially supported on said supporting disc, wherein the supporting disc is provided in the form of an annular piston in an annular chamber filled with a hydraulic medium; and a pressure sensor element arranged in the housing for measuring the hydraulic pressure in the annular chamber.

20. (new) An assembly according to claim 19, wherein the pressure sensor element is connected to a branch line leading to the annular chamber.

21. (new) An assembly according to claim 19, wherein the pressure sensor element is introduced directly into the annular chamber.

22. (new) An assembly comprising:

a friction coupling with an electro-mechanical actuator, the actuator comprising a supporting disc axially fixed in a housing and a displaceable setting disc which is axially supported on said supporting disc, wherein the supporting disc is provided in the form of an annular plunger; an annular housing with a cover inserted into the housing, which annular housing and cover form an annular chamber which is filled with a hydraulic medium; and a pressure sensor element arranged in fluid

communication with the annular chamber for measuring a hydraulic pressure in the annular chamber, wherein the annular plunger acts on the cover.

23. (new) An assembly according to claim 22, wherein the cover is provided in the form of a flexible diaphragm.

24. (new) An assembly according to claim 22, wherein the cover is displaceable in the annular chamber and sealed relative thereto.

25. (new) An assembly according to claim 19, wherein the supporting disc is sealed relative to the annular chamber by sealing rings.

26. (new) An assembly according to claim 20, wherein the supporting disc is sealed relative to the annular chamber by sealing rings.

27. (new) An assembly according to claim 21, wherein the supporting disc is sealed relative to the annular chamber by sealing rings.

28. (new) An assembly according to claim 22, wherein the supporting disc is sealed relative to the annular chamber and the cover relative to the annular chamber, respectively, by sealing rings.

29. (new) An assembly according to claim 23, wherein the supporting disc is sealed relative to the annular chamber and the cover relative to the annular chamber, respectively, by sealing rings.

30. (new) An assembly according to claim 24, wherein the supporting disc is sealed relative to the annular chamber and the cover relative to the annular chamber, respectively, by sealing rings.

31. (new) An assembly according to claim 19, wherein the hydraulic medium forms an elastic formed member.

32. (new) An assembly according to claim 22, wherein the hydraulic medium forms an elastic formed member.

33. (new) An assembly according to claim 25, wherein the hydraulic medium forms an elastic formed member.